

Name _____

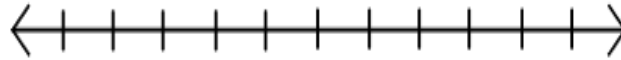
Date _____

Hour _____

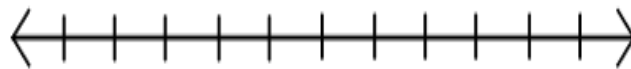
Semester 2 Exam Review- Chapter 6**6.1 Solving One-Step Linear Inequalities**

Solve each inequality and graph its solution.

1. $-18.2a \geq -91$



2. $\frac{g}{4} < -9$

**6.2 Solving Multi-Step Linear Inequalities**

Solve the inequalities.

3. $6 \geq \frac{2}{3}x - 12$

4. $6m + 7 \geq 7m - 9$

5. $-w + 4 < 2(w - 8)$

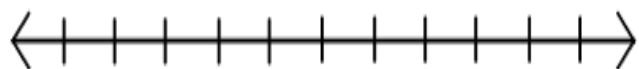
6. $2(r - 7) \geq r + 3$

6.3 Solving Compound Inequalities

Solve each compound inequality and graph its solution.

7. $2 - x < -3$ or $2x + 14 < 12$

8. $-10 \leq -4d - 18 \leq 30$



6.4 Solving Absolute Value Equations & Inequalities

Solve each equation.

9. $|6c - 4| = 2$

10. $|2x - 4| - 8 = 10$

11. $|5 - 4g| - 3 = 4$

Solve each inequality and *graph its solution*.

12. $|x - 3| \leq 17$

13. $|2v + 3| > 4$

14. $|2m + 5| - 1 < 6$

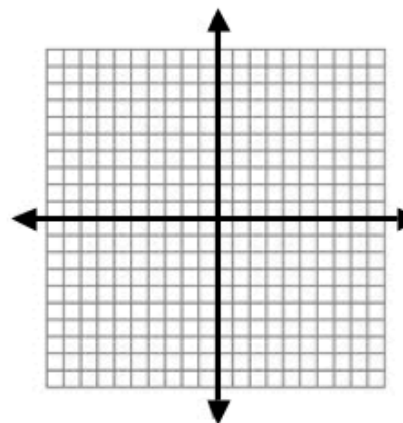
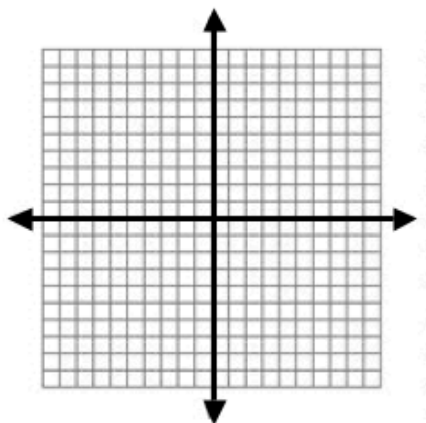
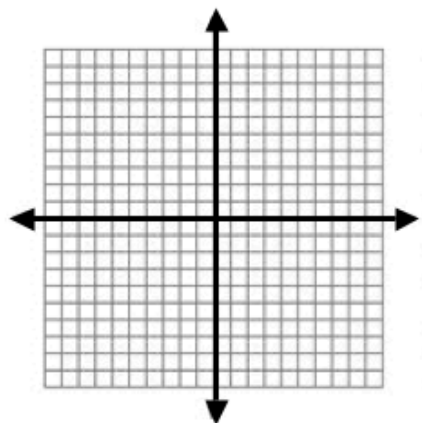
6.5 Graphing Linear Inequalities in Two Variables

Sketch the graph of each inequality on the coordinate plane.

15. $x + y > -8$

16. $3x - y \geq 5$

17. $\frac{1}{3}x - \frac{2}{3}y \geq 2$



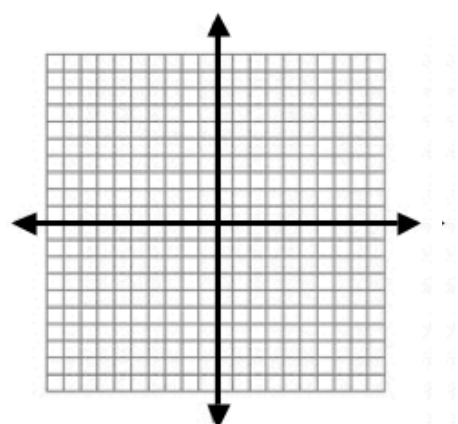
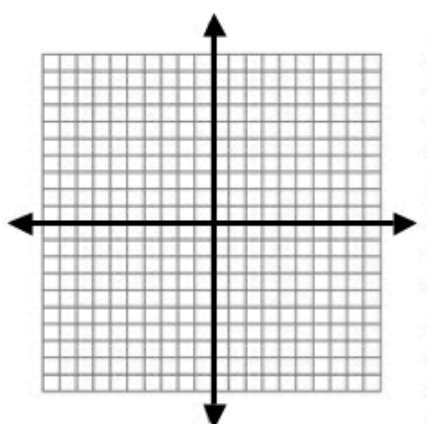
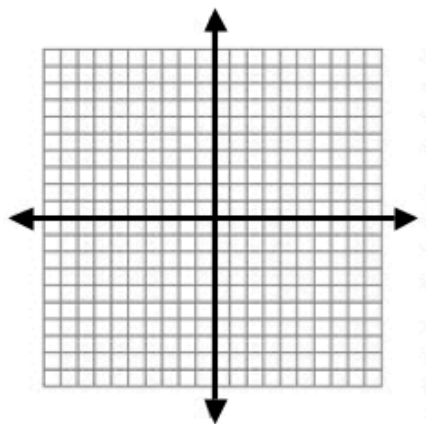
6.5 Graphing Linear Inequalities in Two Variables

Sketch the graph of each inequality on the coordinate plane.

18. $y - 5x > 0$

19. $y \geq 3$

20. $x < -4$



6.6 Stem-and-Leaf Plots and Mean, Median and Mode

High temperatures in Milwaukee during the last two weeks of March are listed below.

55 47 52 55 59 61 70

56 48 45 54 63 57 62

21. Make a Stem-and-Leaf Plot of the data.

22. Find the mean, median and mode of the data.

6.7 Box-and-Whisker Plots






The prices of 20 different pairs of running shoes are shown below.

52 67 102 85 68 89 99 92 80 89

59 79 79 90 75 78 63 94 79 64

23. Make a Box-and-Whisker plot of the data. Be sure to label the First, Second and Third Quartiles as well as the Upper & Lower Extremes.

FOR ADDITIONAL CHAPTER 6 REVIEW PLEASE REFER TO ANY OR ALL OF THE FOLLOWING:

-  Your classroom notes and examples
-  Corresponding book sections
-  Chapter 6 Review on pages 384 - 386
-  Chapter 6 Test on page 387
-  Chapter 6 Extra Practice Problems on page 802

STUDENTS CAN CHECK ANSWERS IN THE BACK OF THE BOOK. IF ANSWERS ARE NOT AVAILABLE IN THE BACK OF THE BOOK, STUDENTS ARE ENCOURAGED TO USE THE TEACHER BOOK TO CHECK ANSWERS BEFORE TAKING THE SEMESTER EXAM.